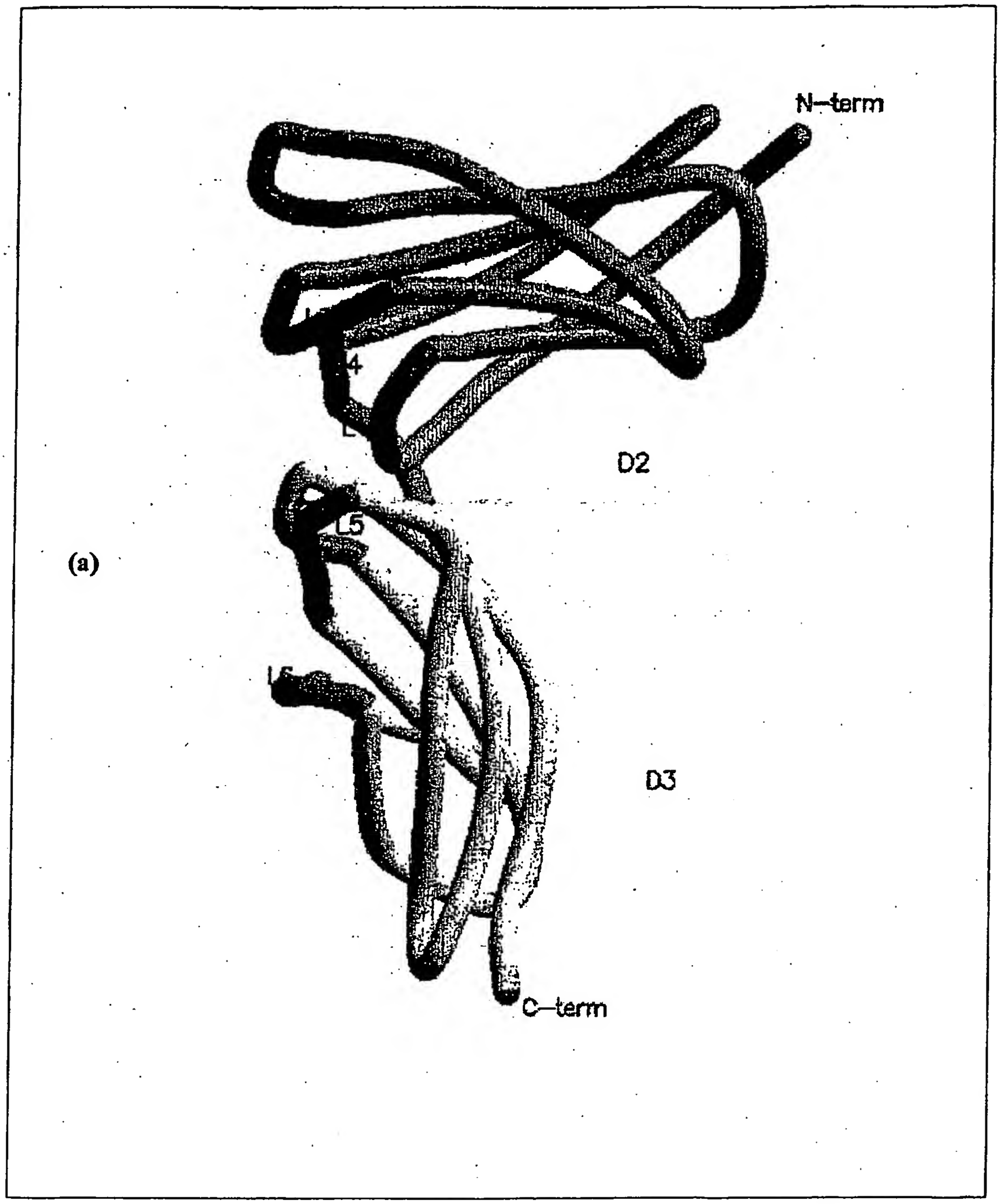

(a)

Figure 1(a)

(b)

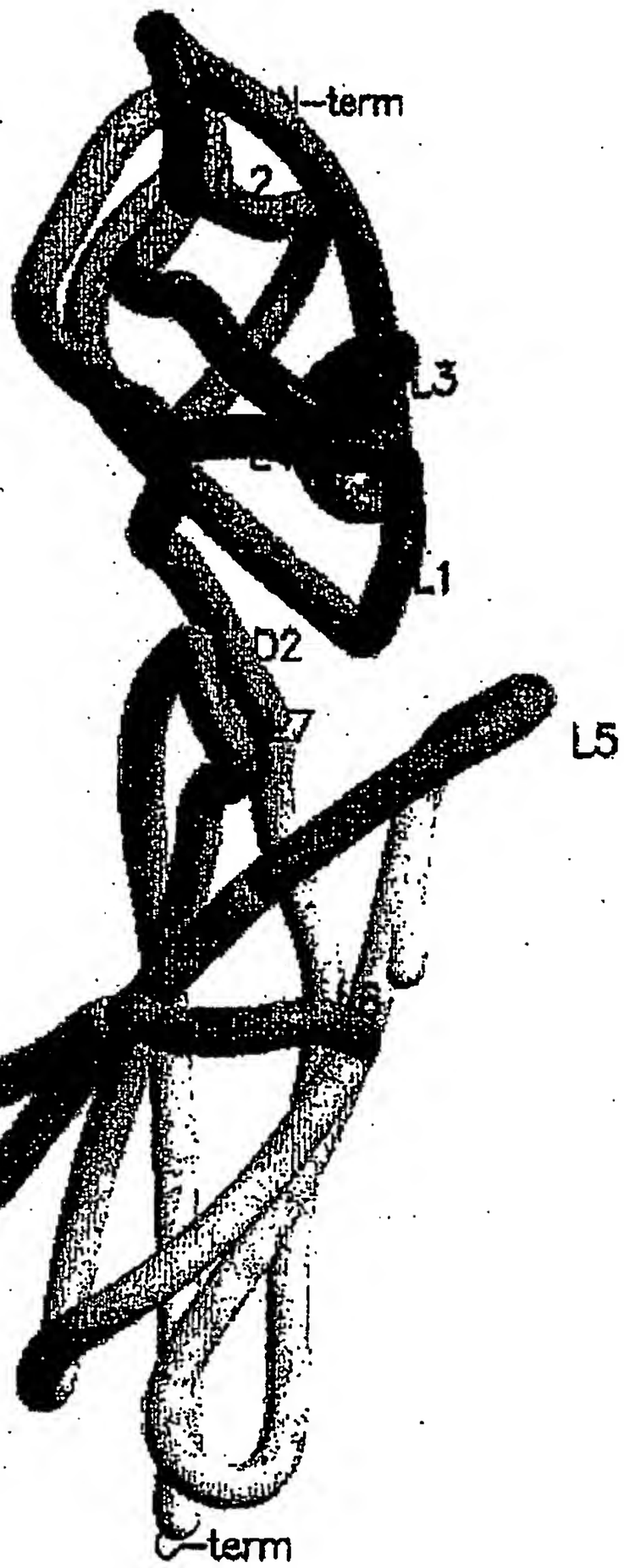

Figure 1(b)

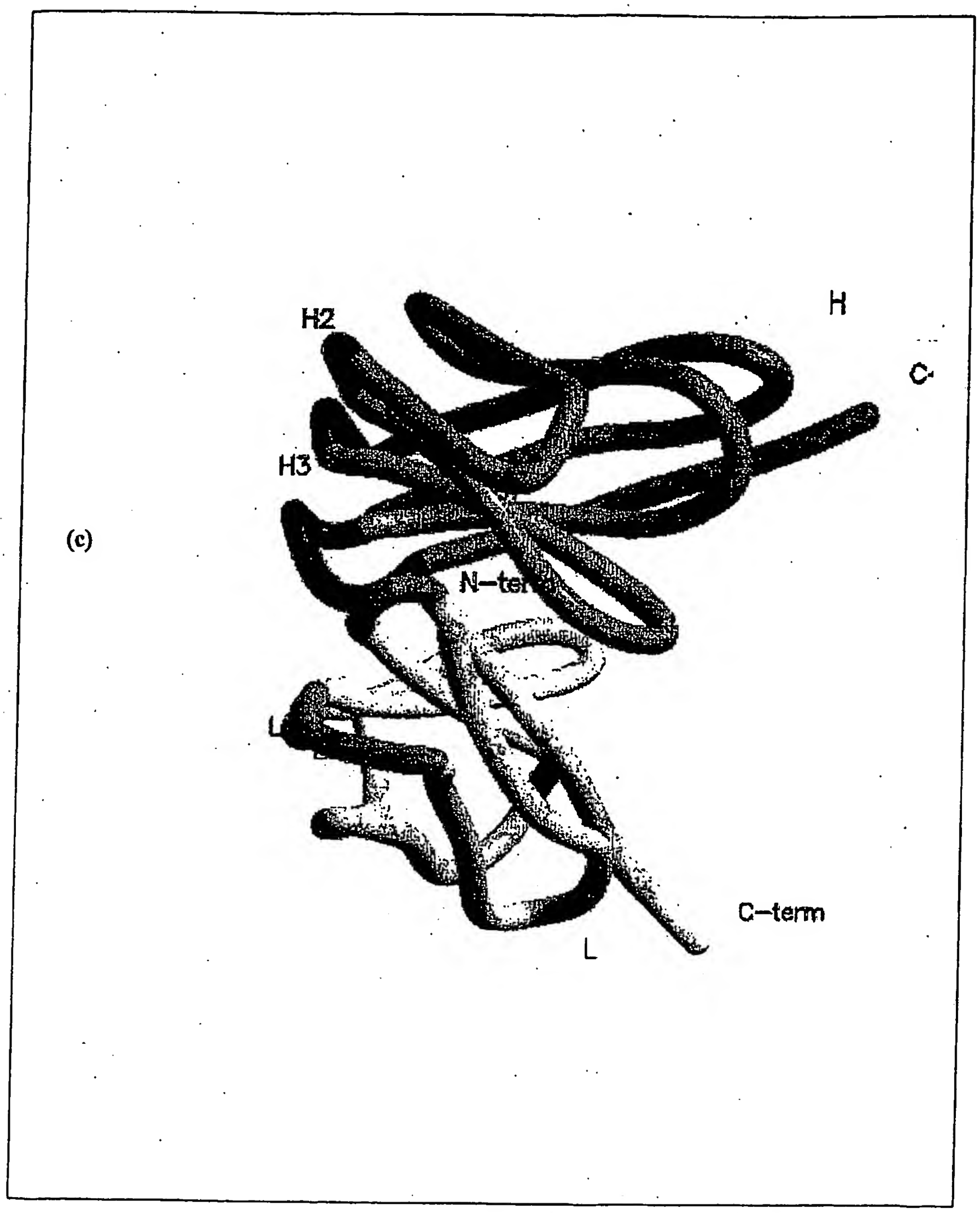

Figure 1(c)

(d)

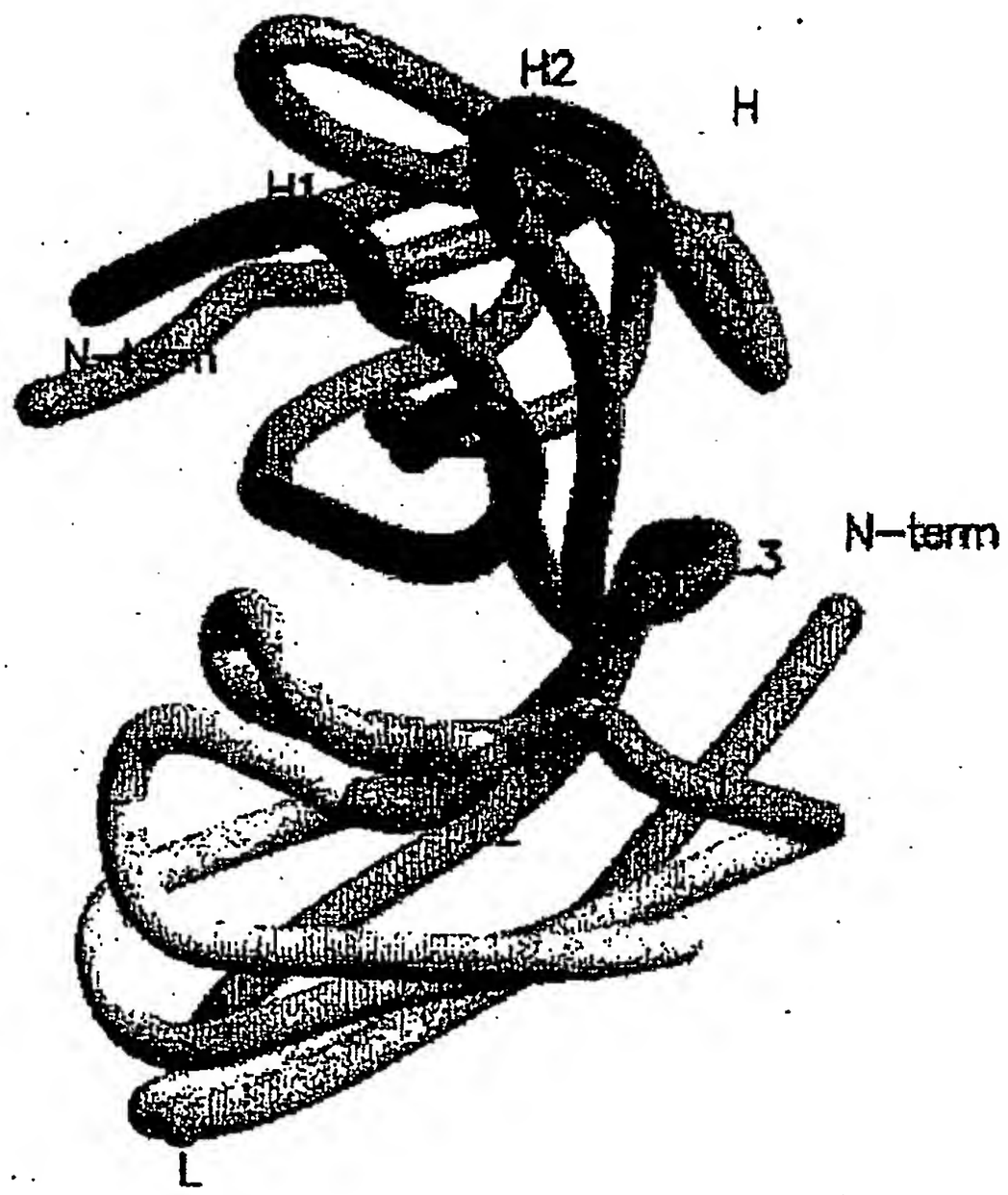

Figure 1(d)

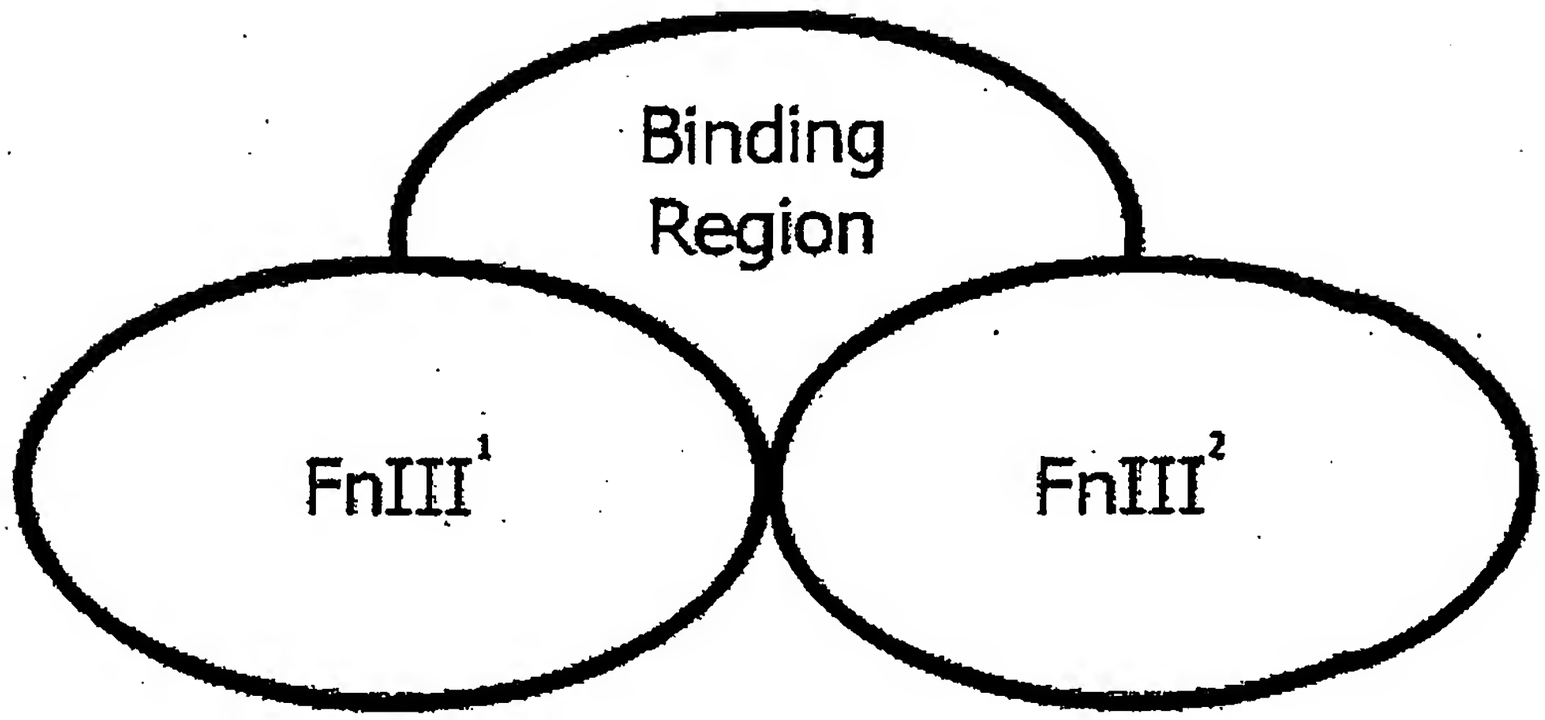

Figure 1A

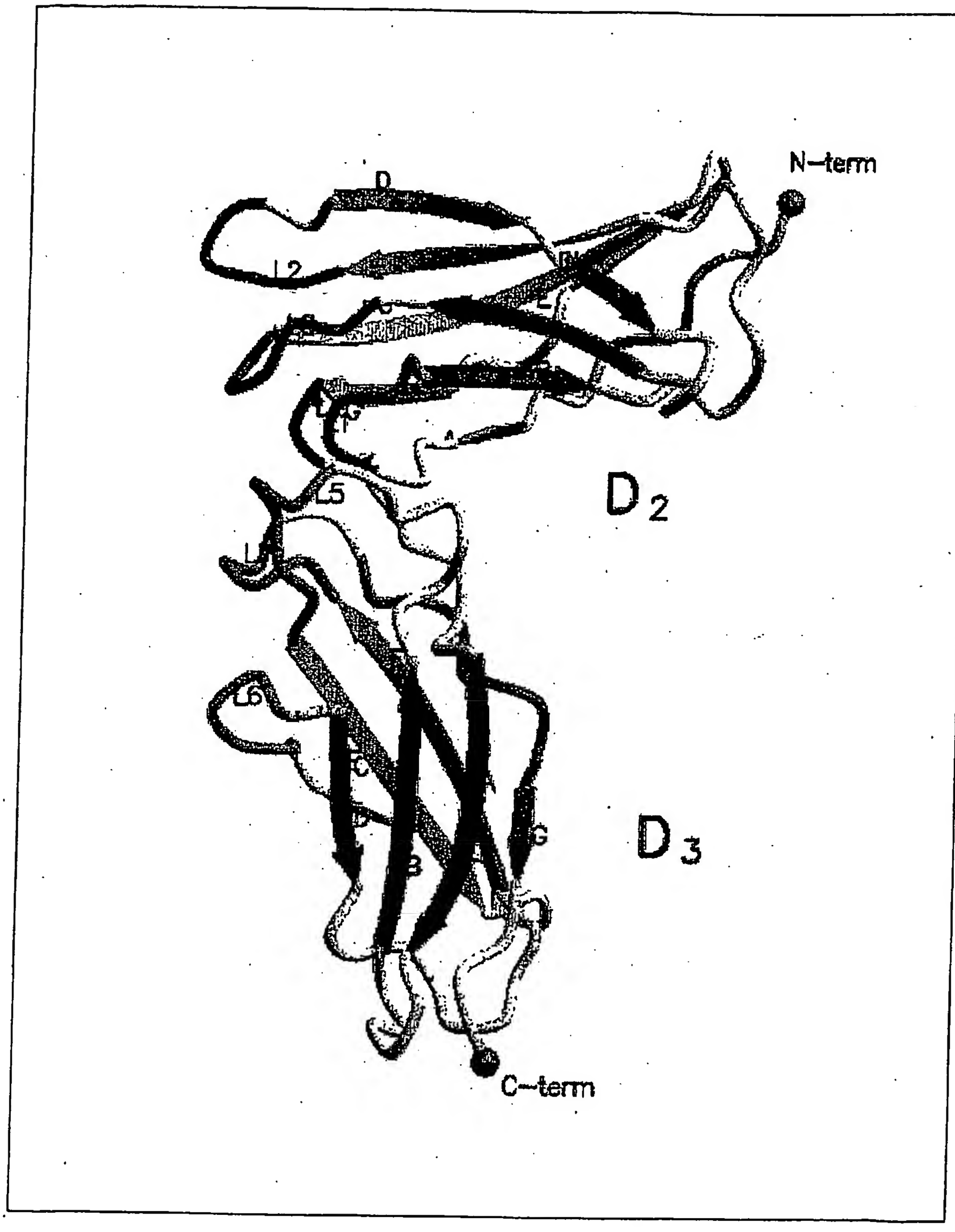

Figure 2(a)

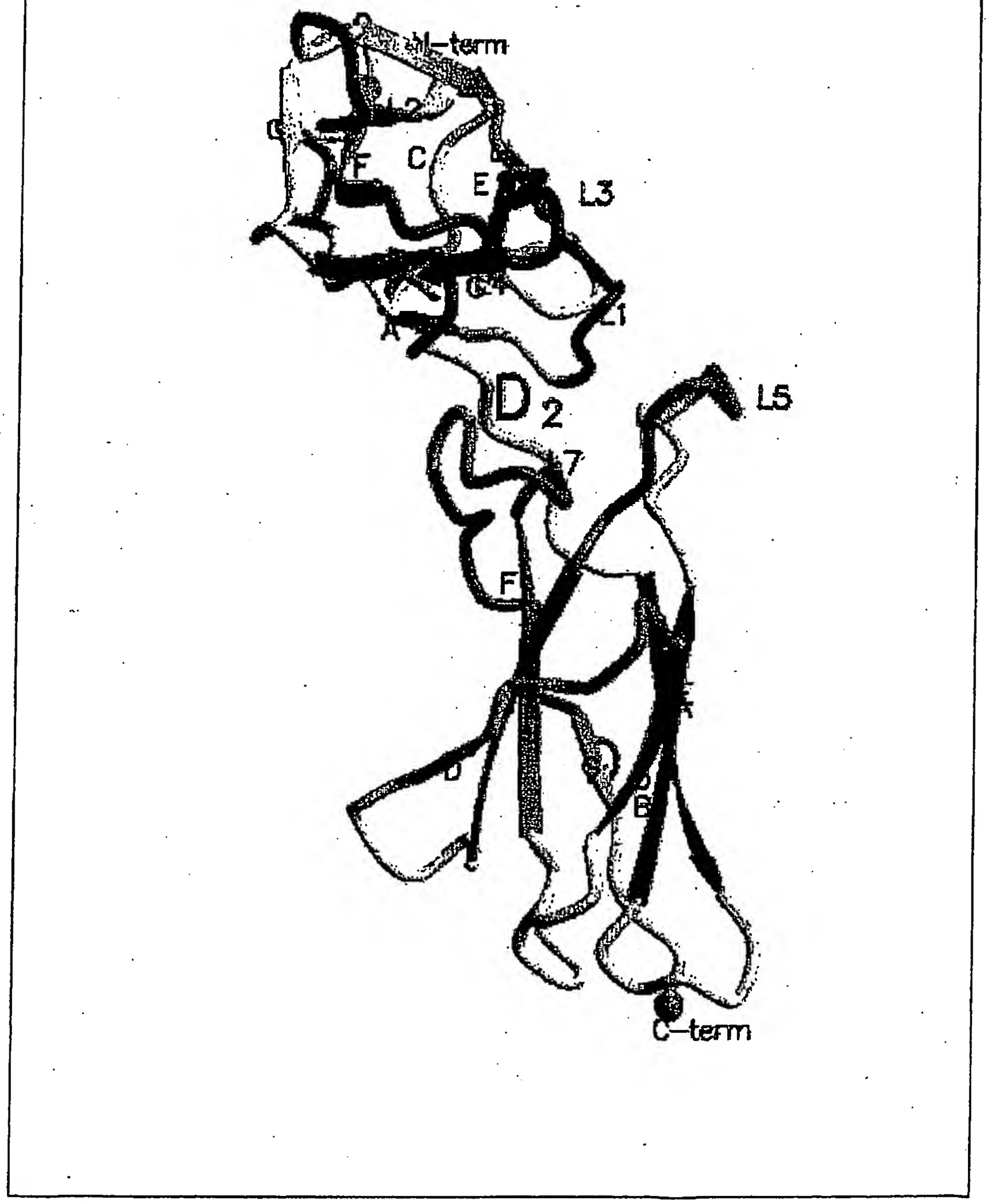

Figure 2(b)

```
          10         20         30         40         50
LAPRRCPAQE VARGVLTSLP GDSVTLTCPG VEPEDNATVH WVLRKPAAGS

          60         70         80         90        100
HPSRWAGMGR RLLLRSVQLH DSGNYSCYRA GRPAGTVHLL VDVPPEEPQLS
                                                      A#

         110        120        130        140        150
CFRKSPLSNV VCEWGPRSTP SLTTKAVLLV RKFQNSPAED FQEPCQYSQE
##       B######          C#########  D,D'###########
     *****                      ******
      L1                         L2

         160        170        180        190        200
SQKFSCQLAV PEGDSSFYIV SMCVASSVGS KFSKTQTFQG CGILQPDPPA
 E######         F############ G##### G'#####         A#
        *********                      *****
           L3                           L4

         210        220        230        240        250
NITVTAVARN PRWLSVTWQD PHSWNSSFYR LRFELRYRAE RSKTFTTWMV
#######      B#######               C########     D####
                              ********          **
                                 L5

         260        270        280        290        300
KDLQHHCVIH DAWSGLRHVV QLRAQEEFGQ GEWSEWSPEA MGTPWTESRS
   E#####          F#########                 G####
*****                        ******
 L6                            L7

         310        320
PPAENEVSTP MQALTTNKDD DNIL
```

beta sheets; * loops; ■■■ first domain (D2); □□□ second domain (D3)

Figure 3

Approximate positioning of each loop in four of the cytokine receptor family members. The loop positions could vary up to 3 amino acids either side of the box. For example Loop 6 of the prolactin receptor is defined as GQQTEF and not FAQQ as depicted here.

```
IL6RPRLRL            ------------------------ VPPEEPQ-LSCFSPNK-ETFVCEWGPRSTPSLTTK
P08887|IL6A_HUMAN    LHDSGNYSCY-RAGRPAGTVHLLV VPPEEPQ-LSCFRKSPLSNVVCEWGPRSTPSLTTK
Q14626|I11R_HUMAN    STDEGTYICQTLDGALGGTVTLQL YPPARPV-VSCQAADY-ENFSCTWSPSQISGLPTR
P16471|PRLR_HUMAN    MKENVASATVFTLLLFLNTCLLNG LPPGKPEIFKCRSPNK-ETFTCWWRPGTDGGLPTN
Q99062|GCSR_HUMAN    -AFLSCCLNWGNSLQILDQVELRA YPPAIPHNLSCLMNLTTSSLICQWEPGPETHLPTS

IL6RPRLRL            AVLLVHRE---------GETLMFQEPCQYSQESQKFSCHFGKQYTSMWRTYIVSMSVASS
P08887|IL6A_HUMAN    AVLLVRKFQN-------SPAEDFQEPCQYSQESQKFSCQLAVPEGD-SSFYIVSMCVASS
Q14626|I11R_HUMAN    YLTSYRKKTVLGADSQRRSPSTGPWPCPQD-PLGAARCVVHGAEFW--SQYRINVTEVNP
P16471|PRLR_HUMAN    YSLTYHRE----------GETLMHECPDYITGGPNSCHFGKQYTSMWRTYIMMVNATNQ
Q99062|GCSR_HUMAN    FTLKSFKSRNC------QTQGDSILDCVPK-DGQSHCCIPRKHLLLYQNMGIWVQAENAL
                                 L2                                L3

IL6RPRLRL            VGSKFSDELYVDVTYILQPDPPANITVTAVA-RNPR---WLSVTWQDPHLIDLK-TGWFT
P08887|IL6A_HUMAN    VGSKFSKTQTFQGCGILQPDPPANITVTAVA-RNPR---WLSVTWQDPHSWNSS---FYR
Q14626|I11R_HUMAN    -LGASTRLLDVSLQSILRPDPPQGLRVESVP-GYPR---RLRASWTYPASWPCQ--PHFL
P16471|PRLR_HUMAN    MGSSFSDELYVDVTYIVQPDPPLELAVEVKQ-PEDR-KPYLWIKWSPPTLIDLK-TGWFT
Q99062|GCSR_HUMAN    GTSMSPQTLCLDPMDVVKLEPPMLRTMDPSPEAAPPQAGCLQLCWEPWQPGLHINQKCEL
                                 L4                                L5

IL6RPRLRL            LRFELRYRAERSKTFTTWFAG-QQHHSVIHDAWSGLRHVVQLRAKPD--HGYWSEWSPEA
P08887|IL6A_HUMAN    LRFELRYRAERSKTFTTWMVKDLQHHCVIHDAWSGLRHVVQLRAQEEFGQGEWSEWSPEA
Q14626|I11R_HUMAN    LKFRLQYRPAQHPAWSTVEPAG--LEEVITDAVAGLPHAVRVSARDFLDAGTWSTWSPEA
P16471|PRLR_HUMAN    LLYEIRLKPEKAAEWEIHFAGQ-QTEFKILSLHPGQKYLVQVRCKPD--HGYWSAWSPAT
Q99062|GCSR_HUMAN    RHKPQRGEASWALVGPLPLEAL-QYELCGLLP--ATAYTLQIRCIRWPLPGHWSDWSPSL
                                 L6                                L7

IL6RPRLRL            MGTPWTE ----------------------------------------------------
P08887|IL6A_HUMAN    MGTPWTE RSPPAENEVST----------PMQALTTN---KDDDNILFRDSANATSLPVQ
Q14626|I11R_HUMAN    WGTPSTG IPKEIPAWGQL----------HTQPEVEP---QVDSPAPPRPSLQPHPRLLD
P16471|PRLR_HUMAN    FIQIPSD TMNDTTVWISVAVLSAVICLIIVWAVALKGYSMVTCIFPPVPGPKIKGFDAH
Q99062|GCSR_HUMAN    ELRTTER PTVRLDTWWRQR-QLDPRTVQLFWKPVPLEEDSGRIQGYVVS-WRPSGQAGA
```

Figure 3A

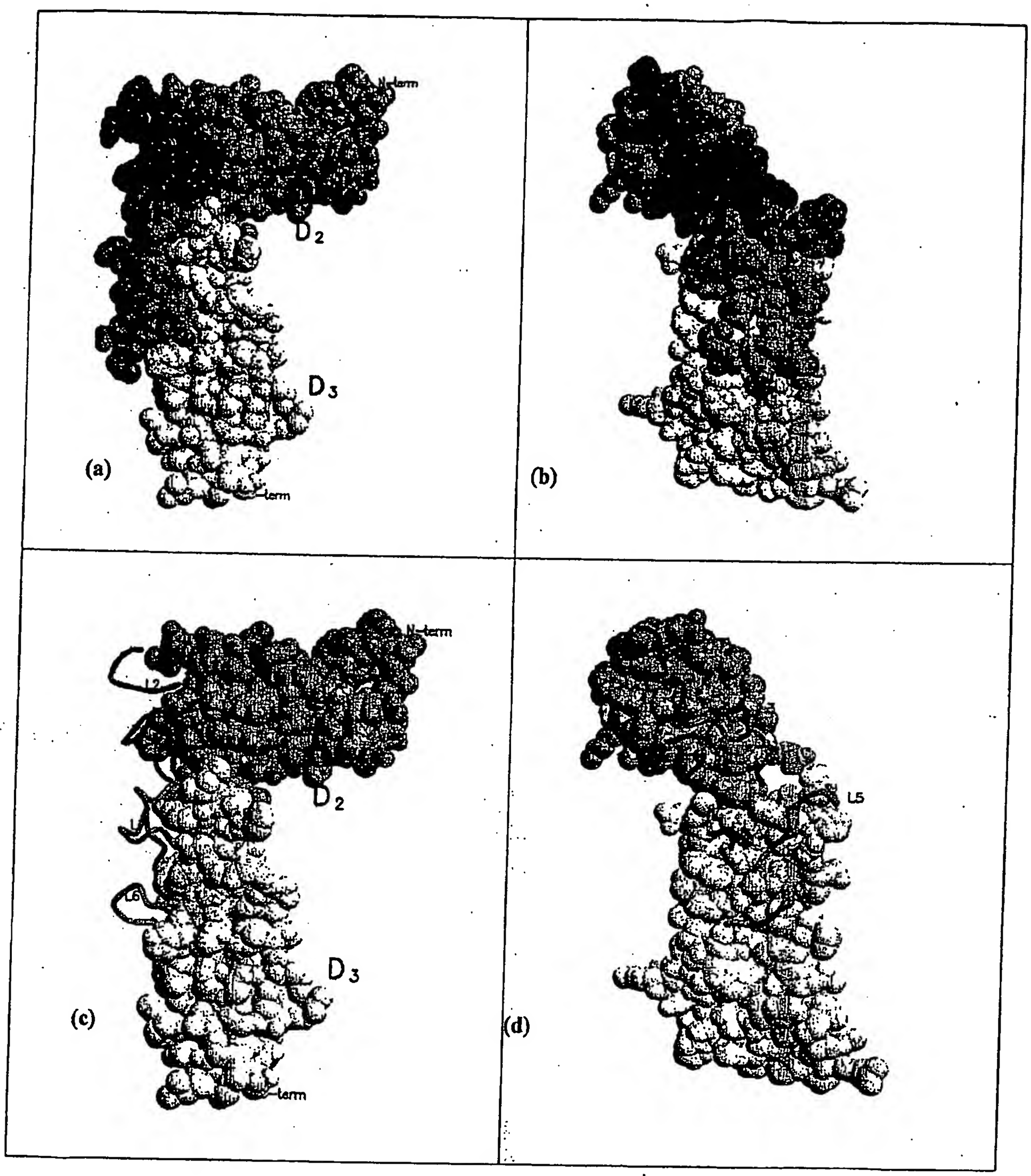

Figure 4

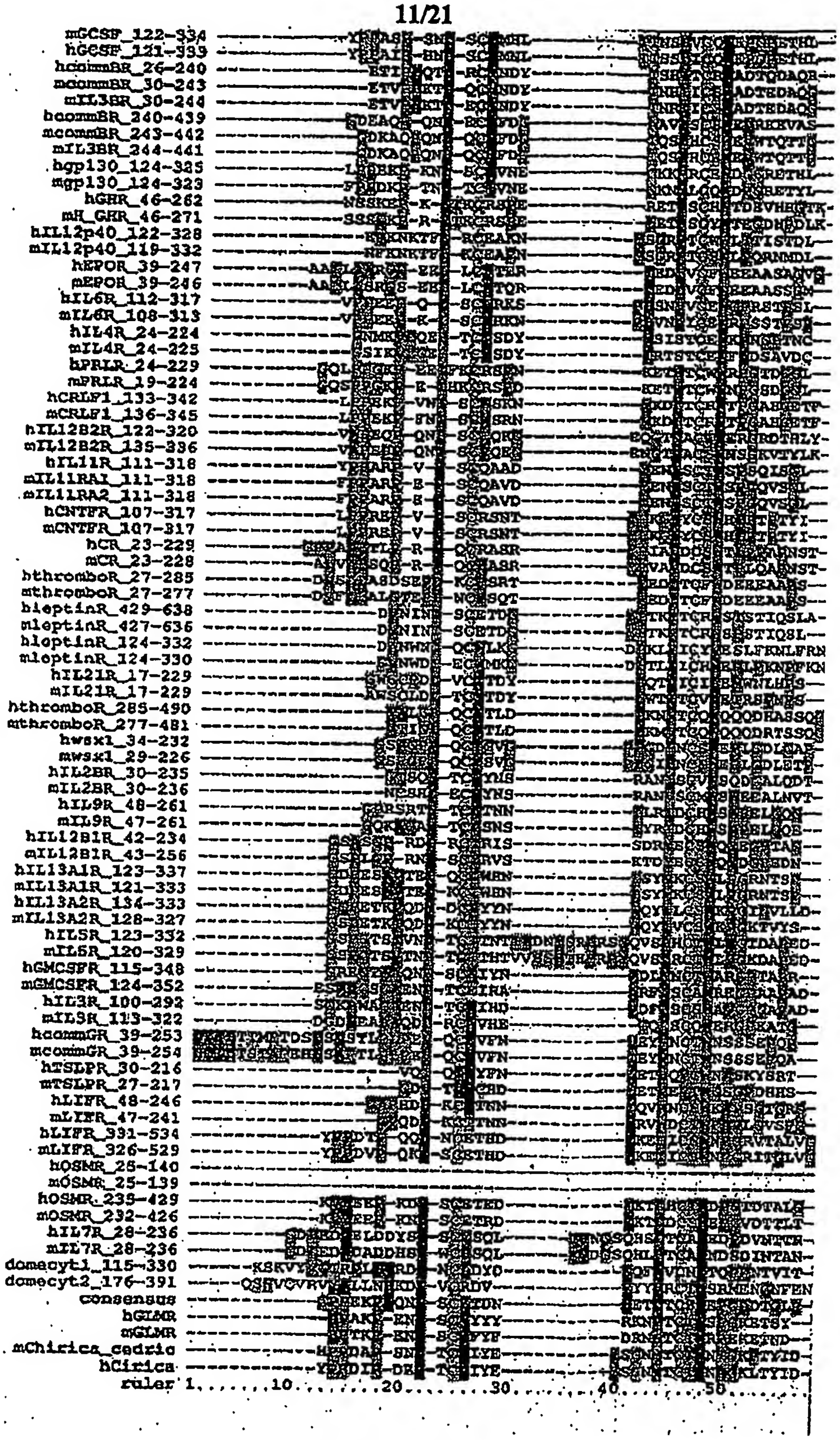

Figure 5A

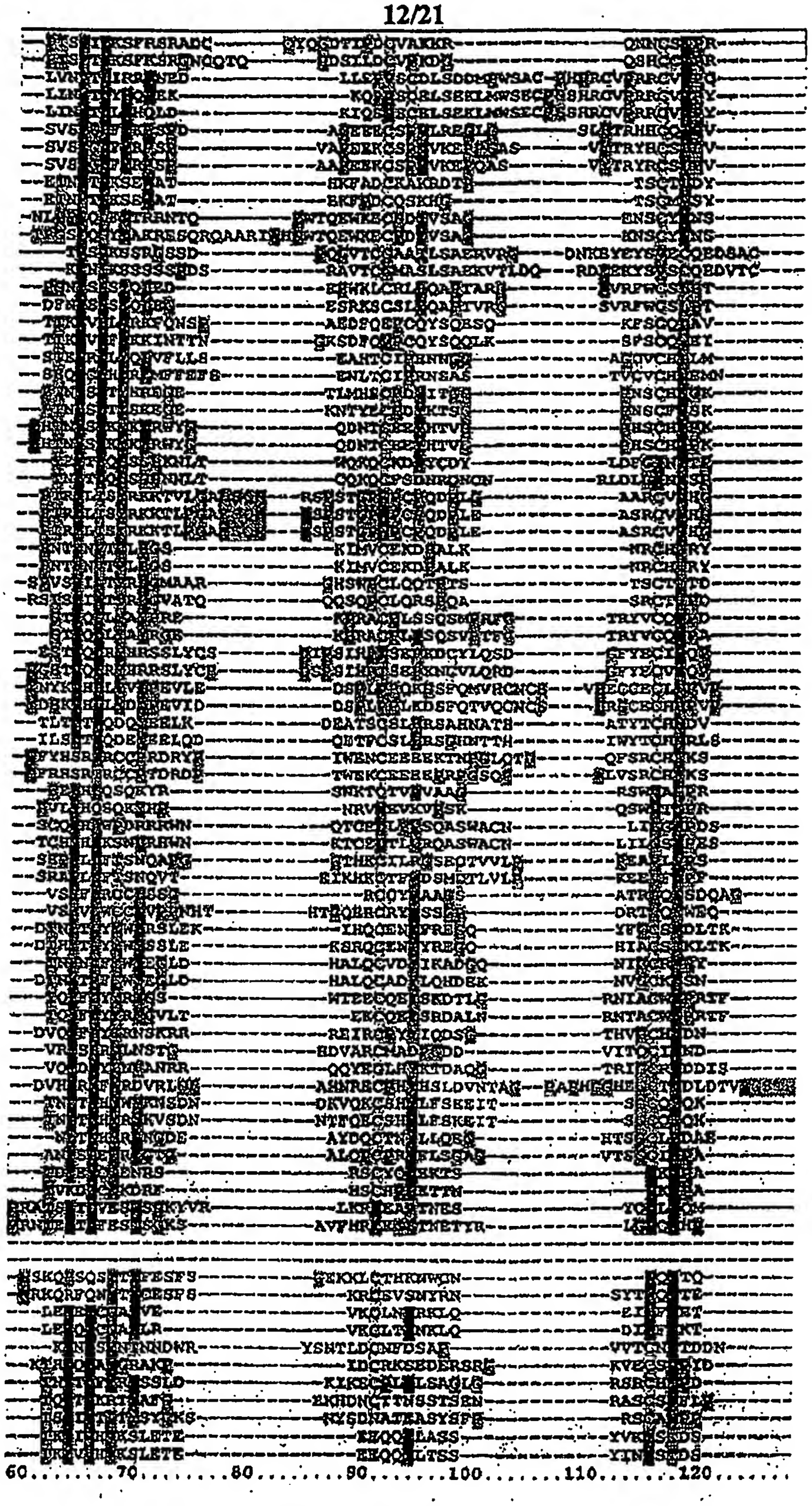

Figure 5A (cont)

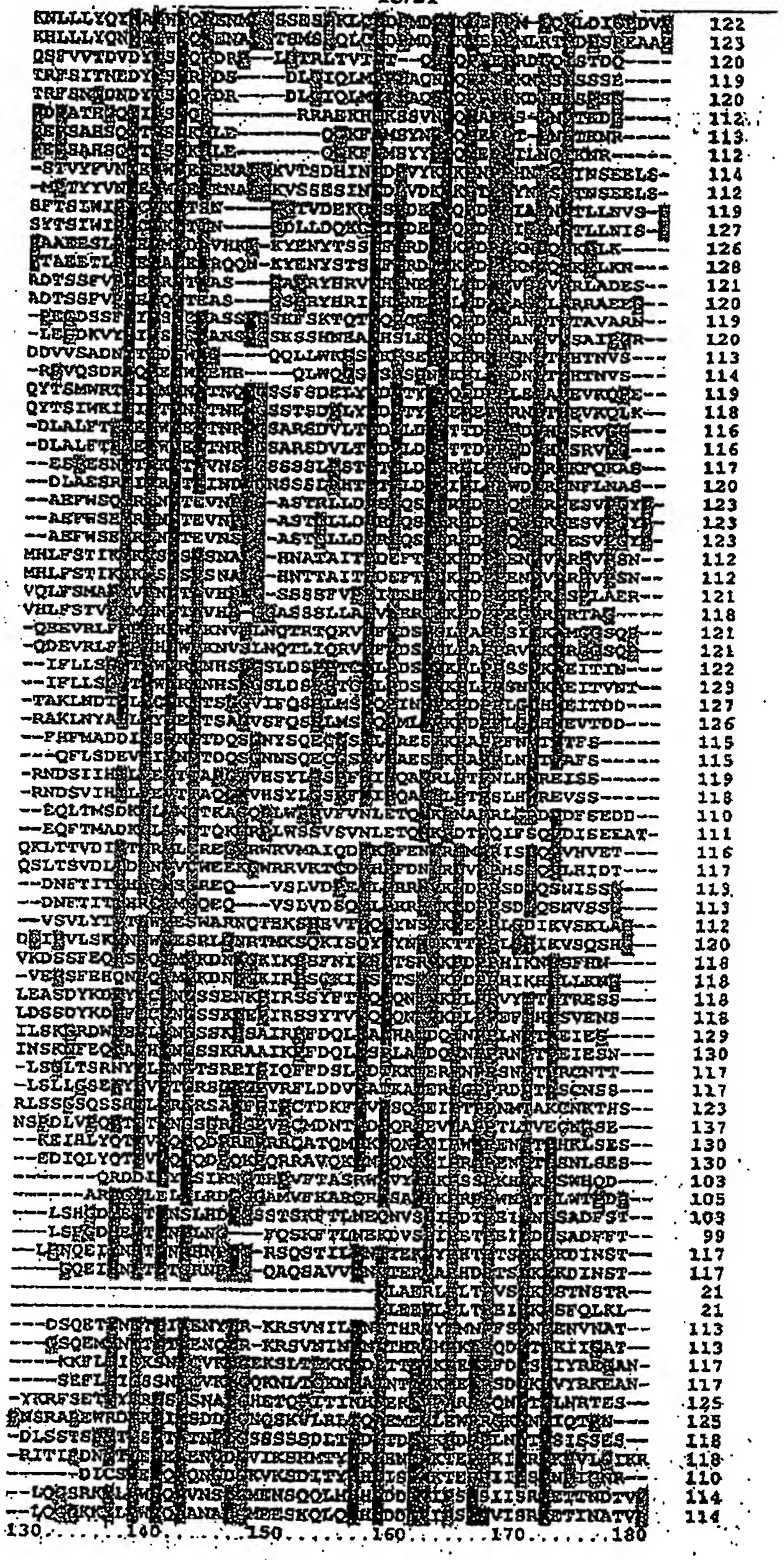

Figure 5A (cont)

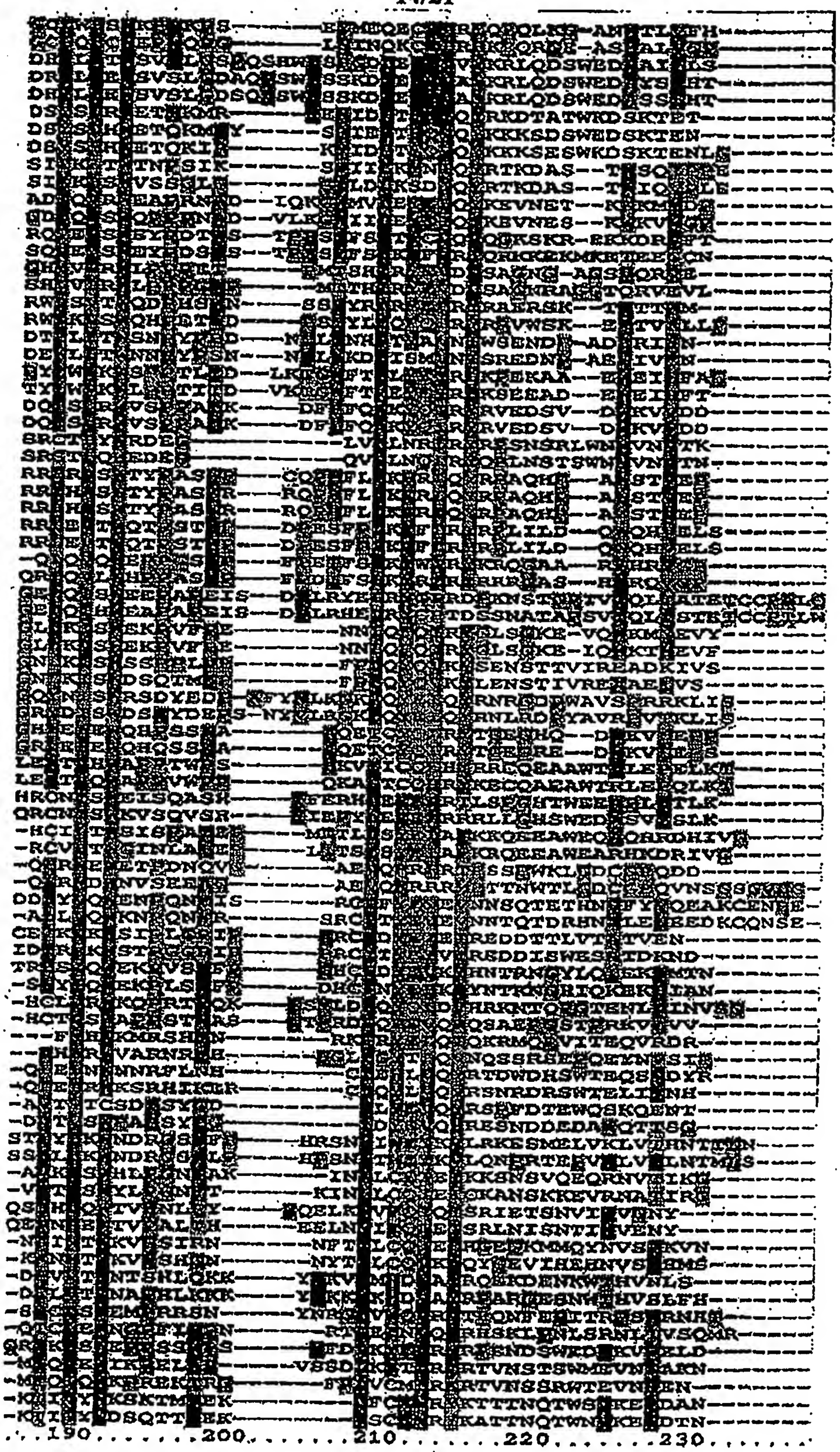

Figure 5B

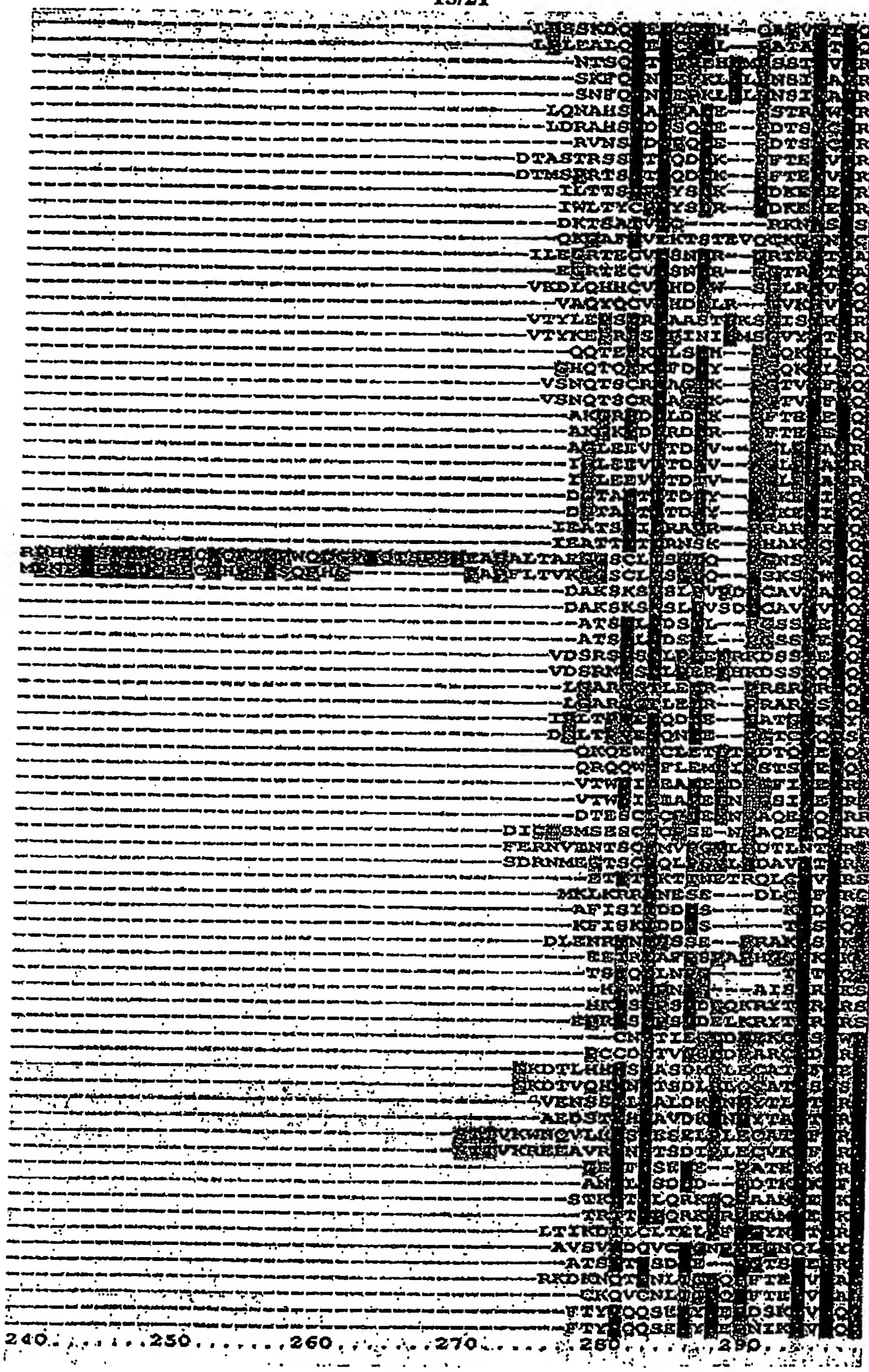

Figure 5B (cont)

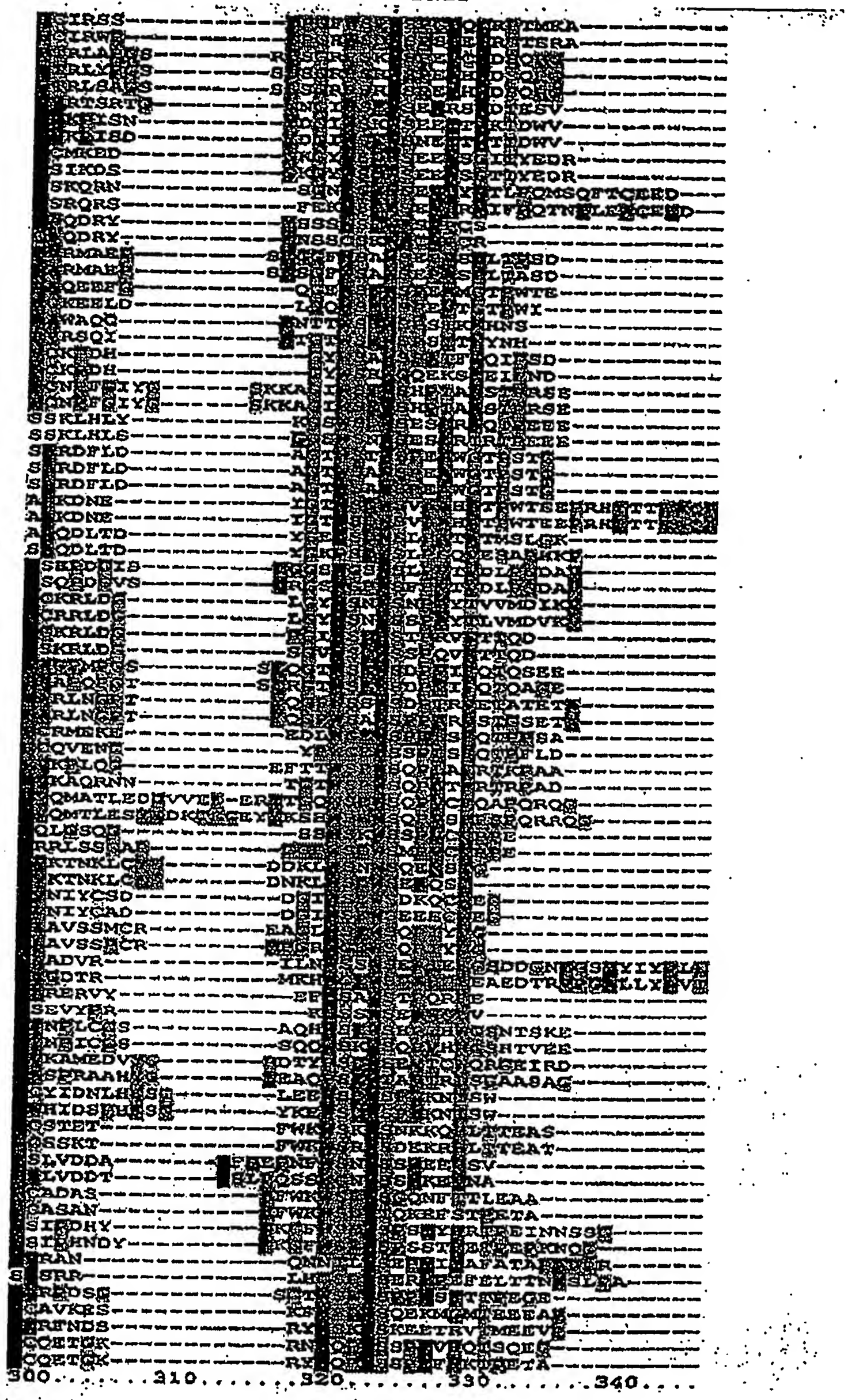

Figure 5B (cont)

(a)

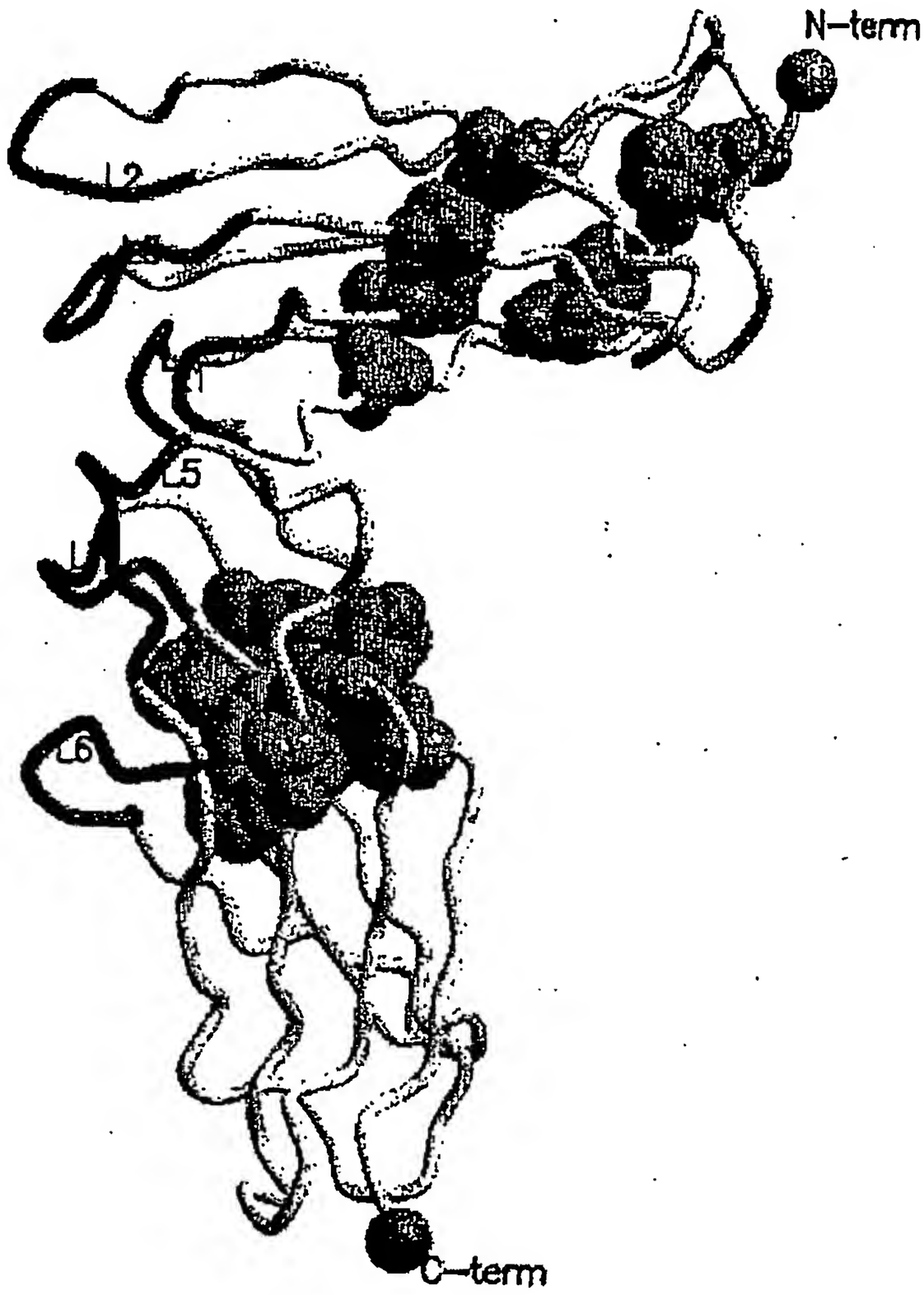

Figure 6(a)

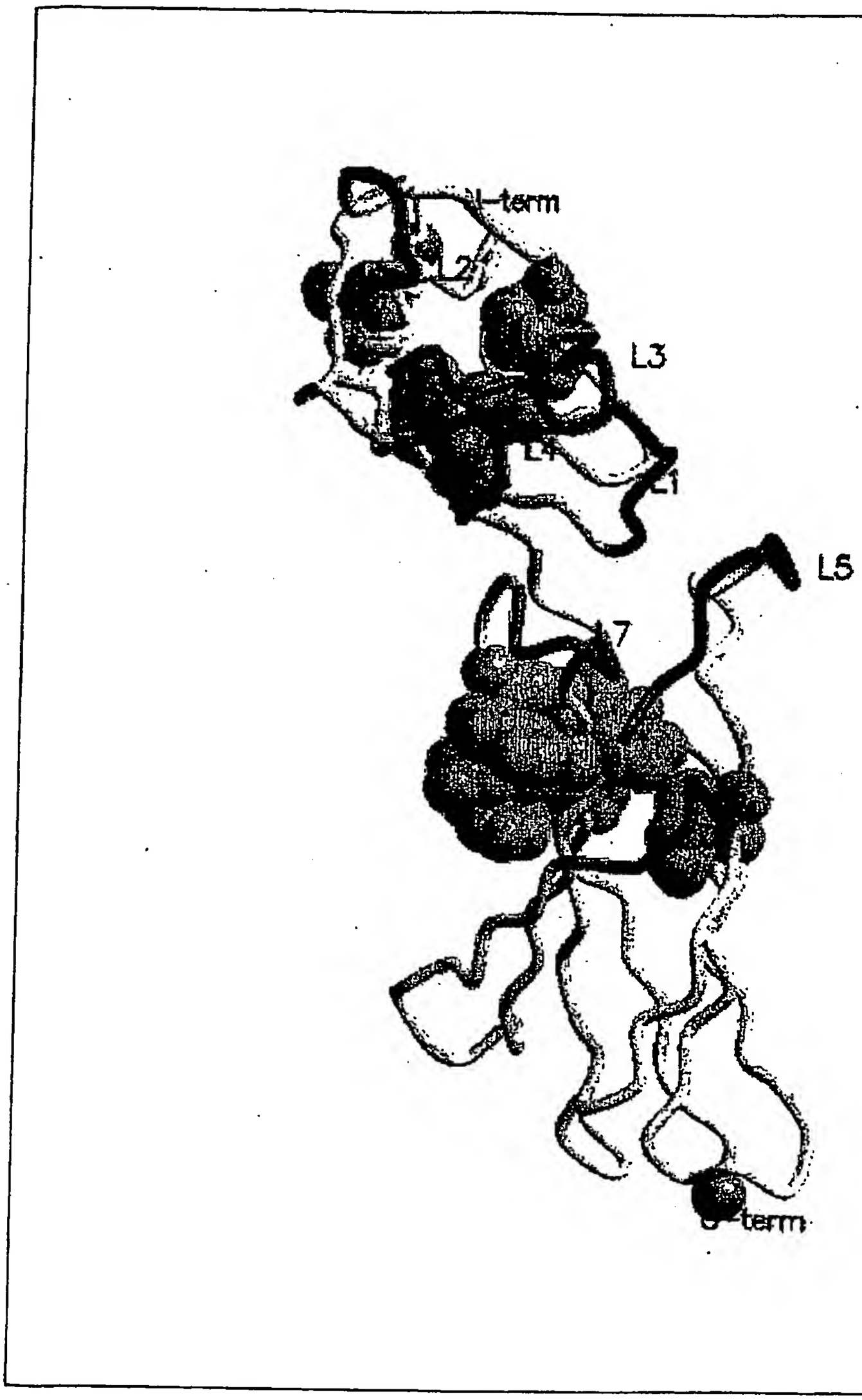

Figure 6(b)

(c)

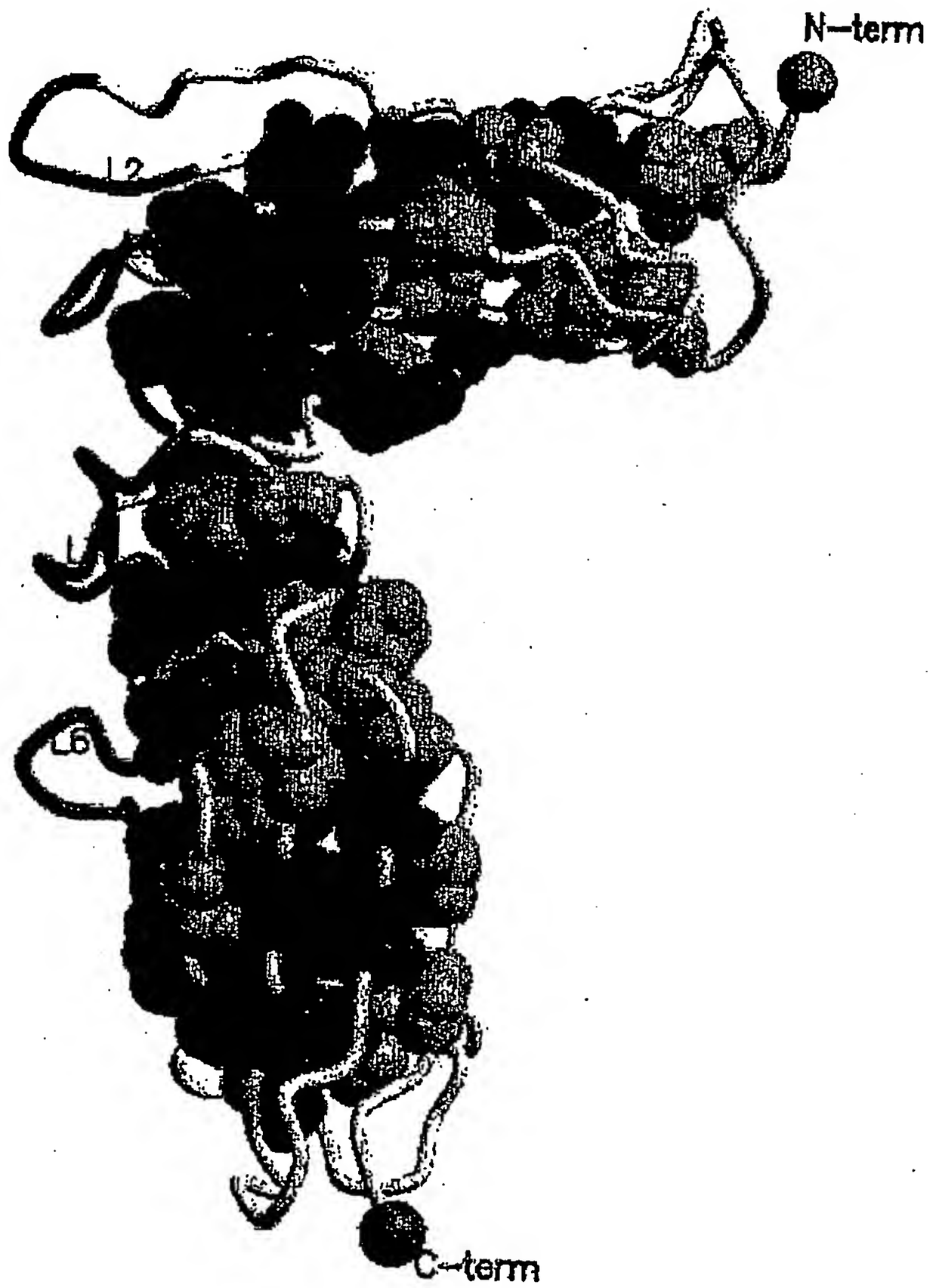

Figure 6(c)

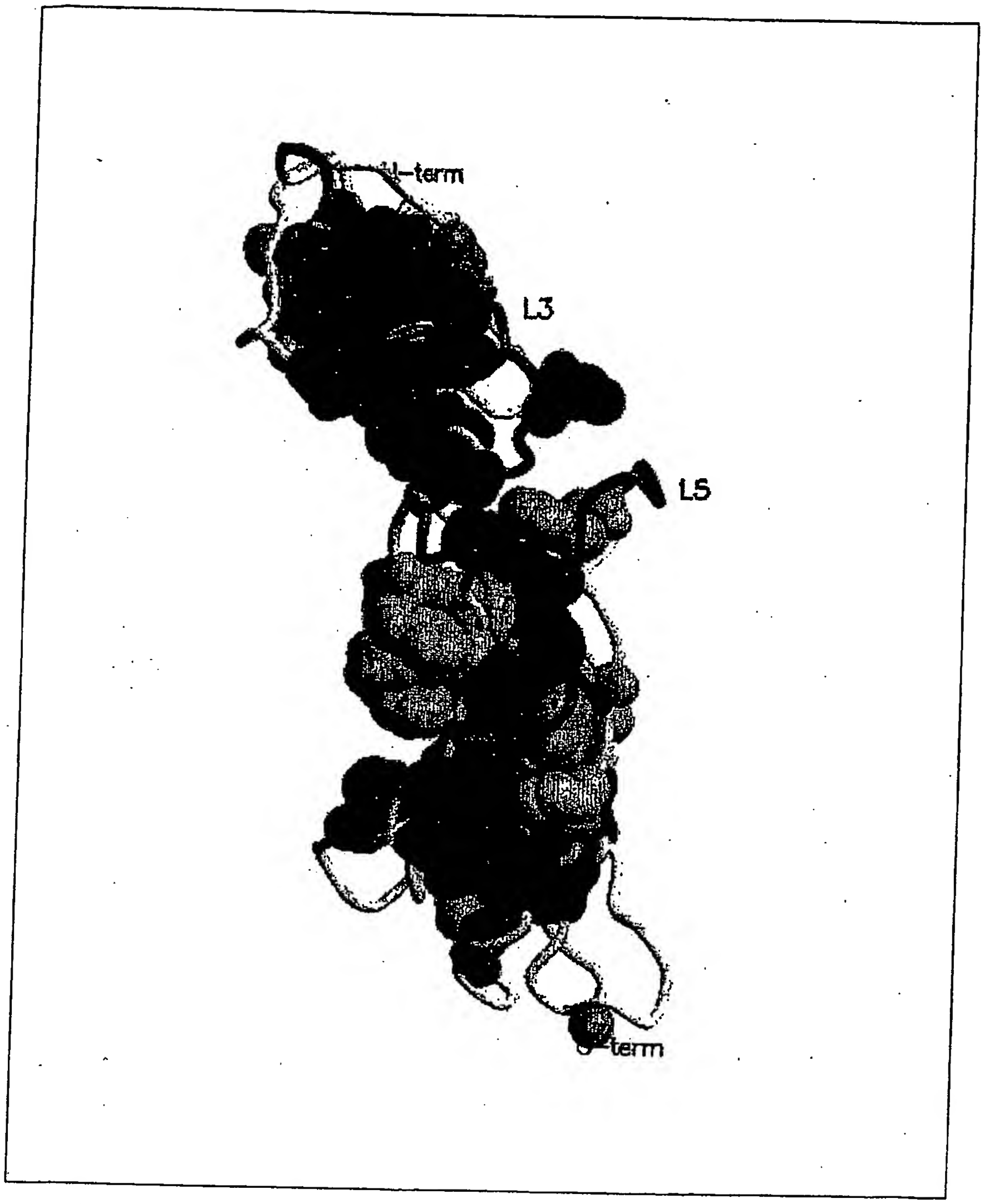

Figure 6(d)

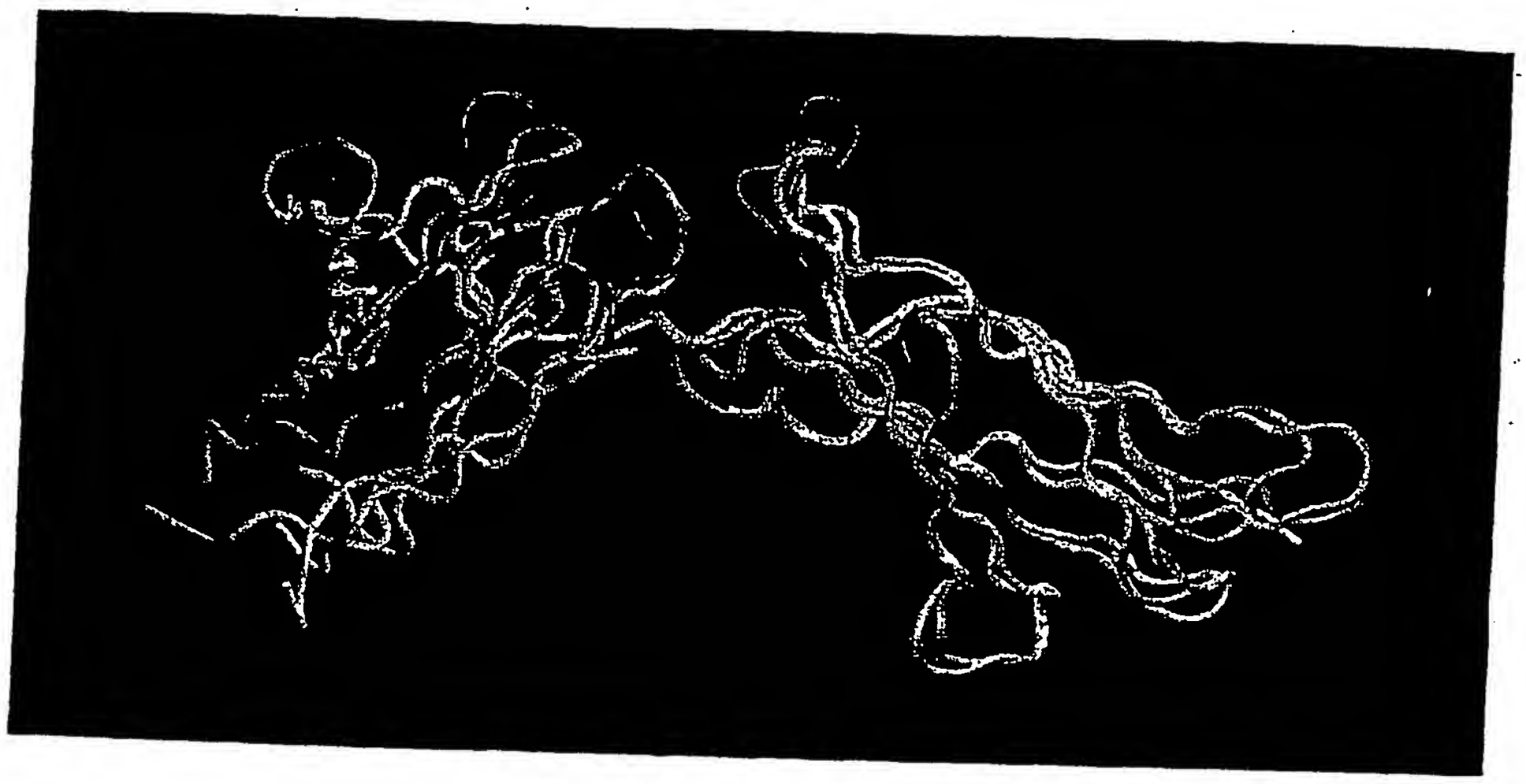

Figure 7